



## MATERIAL SAFETY DATA SHEET

### SECTION I – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Food Service Cleaner Disinfectant (Ready-To-Use)  
(EPA 1839-50-68138) (DIN 02106213)

**Product Code:** ES24C

**Product Use:** Cleaner / Disinfectant

**Manufacturer/Supplier:** Enviro-Solutions Limited

**Address:** 2060 Fisher Dr.,  
Peterborough, ON K9J 8N4

**Telephone:** (705) 745-3070

HMIS Hazard Rating		
HEALTH	1	0 – Insignificant
FLAMMABILITY	0	1 – Slight
REACTIVITY	0	2 – Moderate
PERSONAL PROTECTION	B	3 – High
		4 – Extreme

**Emergency Phone: CANUTEC (613) 996-6666**

### SECTION II – INFORMATION ON INGREDIENTS

Ingredients	CAS#	WT%	ACGIH-TLV	LD <sub>50</sub>	LC <sub>50</sub>
Water	7732-18-5	60-100	Not applicable	14,500 mg/kg (Oral, Rat)	NA
Alcohol alkoxylate	34398-01-1	0.1-1	Not applicable	>2,000 mg/kg (Oral, Rat)	NA
Tetrapotassium pyrophosphate	7320-34-5	0.1-1	Not applicable	>1,000 mg/kg (Oral, Rat)	NA
Sodium metasilicate	6834-92-0	0-0.1	Not applicable	1,153 mg/kg (Oral, Rat)	NA
Tetrasodium ethylenediaminetetraacetate	64-02-8	0-0.1	Not applicable	1,658 mg/kg (Oral, Rat)	NA
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	0-0.1	Not applicable	50 - 500 mg/kg (Oral, Rat)	NA
Alkyl dimethyl ethyl benzyl ammonium chloride	85409-23-0	0-0.1	Not applicable	50 - 500 mg/kg (Oral, Rat)	NA

### SECTION III – HAZARDS IDENTIFICATION

**Route of Entry:** Eye, skin contact, inhalation, ingestion.

**Effects of Acute Exposure:**

**Eye Contact:** Can cause eye damage.

**Skin Contact:** Can cause skin damage.

**Inhalation:** No hazards under normal conditions of use. Can cause nose, throat and respiratory tract irritation.

**Ingestion:** May cause vomiting or headache.

**Effects of Chronic Exposure:** See Section 11.

### SECTION IV – FIRST AID MEASURES

**Eye Contact:** Flush with water for 15 minutes. Seek medical attention.

**Skin Contact:** Flush with water for 15 minutes. Seek medical attention if irritation develops.

**Inhalation:** Remove to fresh air and take deep, slow breaths. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Seek medical attention if symptoms persist. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

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## SECTION V – FIRE FIGHTING MEASURES

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**Flammability:** Not flammable.      **Flash Point:** (deg C, TCC): None  
**LEL:** None      **UEL:** None  
**Auto-Ignition Temperature:** None  
**Hazardous Combustion Products:** May include ammonia, oxides of carbon and nitrogen.  
**Means of Extinction:** Water mist (fog), dry chemical, carbon dioxide, or foam.  
**Special Fire Hazards:** Firefighters should wear self-contained breathing apparatus.  
**Explosion Data – Sensitivity to Mechanical Impact:** None.  
**Explosion Data – Sensitivity to Static Discharge:** None.

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## SECTION VI – ACCIDENTAL RELEASE MEASURES

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**Leak and Spill Procedures:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Product is biodegradable as per OECD Test Method 301D. For large quantities, dispose of in accordance with local, state/provincial and federal laws.

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## SECTION V II – HANDLING AND STORAGE

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**Storage Requirements:** KEEP OUT OF REACH OF CHILDREN. Store in closed container. Store in a cool, dry, well-ventilated area away from incompatible materials.

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## SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

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**Gloves:** Rubber gloves may be advisable if repeated/prolonged contact may occur or for those with sensitive skin.  
**Eye protection:** Use safety glasses when direct contact may occur.  
**Respiratory protection:** Not normally required if good ventilation is maintained.  
**Other protective equipment:** As required by employer code.  
**Engineering Controls:** General ventilation normally adequate.

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## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance/Odor:</b> Clear, no odor.	<b>Physical State:</b> Liquid
<b>Boiling Point (°C):</b> 100 <b>Freezing Point (°C):</b> NE	<b>% Volatile (Wt%):</b> 100
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.01	<b>pH:</b> 11.80
<b>Evaporation Rate (Water=1):</b> Similar	<b>Viscosity:</b> Water thin.
<b>Coefficient of Water/Oil Distribution:</b> NE	<b>Solubility in Water:</b> Soluble
<b>Vapor Pressure:</b> NA <b>Vapor Density:</b> NA	<b>Odor Threshold:</b> NE

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## SECTION X – STABILITY AND REACTIVITY

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**Conditions for Chemical Instability:** Stable.  
**Incompatibility Materials:** Strong oxidizing agents and strong alkali.  
**Conditions of reactivity:** NE  
**Hazardous Decomposition Products:** Ammonia, oxides of carbon and nitrogen.

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## SECTION XI – TOXICOLOGICAL INFORMATION

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**LD<sub>50</sub>:** Not established for this product.      **LC<sub>50</sub>:** Not established for this product.  
This product may cause irritation to the eyes or skin upon prolonged contact.  
**Conditions Aggravated by Exposure:** None known.  
**Sensitization to Product:** None known.  
**Carcinogenicity:** No ingredients listed by IARC or NTP. Non-hazardous by WHMIS standards.  
**Teratogenicity, Mutagenicity, Reproductive Effects:** None known.  
**Toxicologically Synergistic Products:** None known.

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## SECTION XII – ECOLOGICAL INFORMATION

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**Biodegradability:** Not established for this product.  
**Aquatic Acute Toxicity:** Not established for this product.

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## SECTION XIII – DISPOSAL CONSIDERATIONS

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Dispose of in accordance with local state/provincial and federal regulations.

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## SECTION XIV - TRANSPORTATION

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**Special Shipping Information:** Keep from freezing.  
**T.D.G. Classification:** Not regulated.  
**D.O.T. Classification:** Not regulated.

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## SECTION XV – REGULATORY INFORMATION

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**Occupational Health and Safety Regulations:**  
**WHMIS Class:** Product is registered under the Food and Drug Act.  
**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations Under the Hazardous Product Act).  
**Environmental Regulatory Lists:**  
**SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372** – None of these ingredients are listed.  
**CERCLA – Section 102 (Reportable Quantity) 40 CFR 302** – None of these ingredients are listed.  
**RCRA 40CFR 261 (SUBPART D)** – None of these ingredients are listed.  
**CLEAN WATER ACT – Section 311 (Reportable Quantity) 40 CFR 116** - None of these ingredients are listed.  
**CLEAN AIR ACT – Section 312 (List of Hazardous Air Pollutants) 40 CFR 63 (Subpart C)** – None of these ingredients are listed.  
**National Pollutant Release Inventory** – None of the ingredients are listed.  
**Toxic Substances Control Act (TSCA)** – All the ingredients are registered on the Chemical Substance Inventory.  
**Canadian Domestic Substance List (DSL)** – All the ingredients are registered on the DSL.

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## SECTION XVI – OTHER INFORMATION

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**Date:** October 31, 2008  
**Prepared by:** Technical Services Group      **Telephone:** (705) 745-3070

NA: Not Available      NE: Not Established

**Disclaimer**  
Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages, which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400), or CSST in Montreal, Quebec (514-873-3990).